Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1

2

the steps of

Claim 1 (original): A method for producing a structure on a 1 substrate comprising the steps of 2 depositing drops of a suspension of 3 nanoparticles of a material in a liquid by means of a 4 5 droplet generator, melting the nanoparticles of the deposited drops 6 at least partially by exposition to laser light and 7 solidifying the molten nanoparticles for forming 8 9 the structure. Claim 2 (original): The method of claim 1 further comprising 1 2 the steps of directing the laser light to a curing point on 3 the substrate and 4 translating the curing point in respect to the 5 6 substrate. Claim 3 (original): The method of claim 1 further comprising 1. 2 the steps of depositing the drops at a drop-off point on said 3 4 substrate and translating the drop-off point in respect to the 5 6 substrate.

Claim 4 (original): The method of claim 1 further comprising

directing the laser light to a curing point on 3 the substrate, 4 depositing the drops at a drop-off point on said 5 substrate, and 6 translating the curing point and the drop-off 7 point in respect to the substrate 8 Claim 5 (original): The method of claim 4 wherein the curing 1 point and the drop-off point coincide. 2 Claim 6 (original): The method of claim 4 wherein the curing 1 point and the drop-off point are located at a distance from 2 each other. 3 Claim 7 (original): The method of claim 1 comprising the 1 step of generating the drops by compressing a volume of the 2 suspension and thereby squirting the drops through an 3 opening onto the substrate. 4 Claim 8 (original): The method of claim 1 wherein the liquid 1 is selected from the group comprising toluene, terpineol, 2 xylene and water. 3 Claim 9 (original): The method of claim 1 wherein an 1 exponential absorption coefficient of the laser light in the 2 suspension is at least 0.1 μ m⁻¹, in particular at least 3 $1 \, \mu m^{-1}$. 4 Claim 10 (original): The method of claim 1 wherein the 1 2 suspension is deposited as a layer on the substrate and wherein at least 80% of the laser light is absorbed in the 3

4

layer.

- Appl. No. 10/621,046 Amendment/Response dated April 13, 2005 Reply to Office Action of March 22, 2005
- 1 Claim 11 (original): The method of claim 1 wherein the
- 2 nanoparticles are of a metal.
- Claim 12 (original): The method of claim 1 wherein the
- 2 liquid comprises toluene and the nanoparticles comprise
- 3 gold.
- 1 Claim 13 (currently amended): The method of claim 1 wherein
- an average diameter of the nanoparticles is sufficiently
- 3 small for reducing a melting point of the nanoparticles
- 4 substantially below a bulk melting point of the material.
- 1 Claim 14 (original): The method of claim 1 wherein an
- 2 average diameter of the nanoparticles is less than 100 nm,
- 3 in particular less than 10 nm, preferably between 1 nm and
- 4 5 nm.
- 1 Claim 15 (original): The method of claim 1 wherein the
- 2 structure is a superconductor.
- 1 Claim 16 (original): The method of claim 1 wherein an
- 2 intensity distribution of the laser light at the curing
- 3 point is non-Gaussian.
- 1 Claim 17 (original): The method of claim 1 wherein an
- 2 intensity distribution of the laser light at the curing
- 3 point has at least two spatially separated maxima.
- 1 Claim 18 (original): The method of claim 1 comprising the
- 2 step of depositing said drops along a line strip on said
- 3 substrate, wherein an intensity distribution of the laser
- 4 light at the curing point has a local minimum on a center
- 5 line of said line strip.

Claim 19 (original): The method of claim 1 comprising the 1 steps of 2 depositing said drops along a line strip on said 3 substrate, 4 directing at least two laser beams onto said 5 substrate at said curing point, said laser beams impinging 6 on opposite sides of a center line of said line strip. 7 Claim 20 (original): The method of claim 1 comprising the 1 step of repetitively pulsing said laser light. 2 Claim 21 (original): The method of claim 1 comprising the 1 step of evaporating at least part of said liquid after 2 depositing said drops and before bringing said nanoparticles 3 into contact with said laser light. 4 Claim 22 (original): The method of claim 1 comprising the 1 step of heating said substrate by a means separate from said 2 3 laser light. Claim 23 (original): The method of claim 1 wherein said 1 substrate is transparent for said laser light. 2 Claim 24 (original): The method of claim 1 further 1 comprising the step of generating, above or below said 2 structure, a structured polymer layer by 3 depositing drops of a polymerizable liquid, and 4 polymerizing said drops of deposited 5 polymerizable liquid. 6 Claim 25 (original): The method of claim 24, wherein said 1 drops of deposited polymerizable liquid are polymerized 2 using UV radiation. 3

Claim 26 (original): A method for producing a structure on a 1 substrate comprising the steps of 2 depositing drops of a suspension of 3 nanoparticles of a material in a liquid onto said substrate, 4 illuminating a curing point on said substrate by 5 laser light, 6 at least partially melting the nanoparticles of 7 the deposited drops in said curing point and 8 solidifying the molten nanoparticles for forming 9 10 the structure. Claim 27 (original): A method for producing a structure on a 1 substrate comprising the steps of 2 depositing a layer of a suspension of 3 nanoparticles of a material in a liquid onto said substrate, 4 illuminating a curing point on said substrate by 5 laser light having non-Gaussian intensity distribution, 6 at least partially melting the nanoparticles of 7 the deposited drops in said curing point while moving said 8 substrate in respect to said curing point to form a line 9 strip of said material. 10 Claim 28 (original): The method of claim 27 wherein the 1 intensity distribution has at least two spatially separated 2 3 maxima. Claim 29 (original): A method for producing a structure on a 1 substrate comprising the steps of 2 depositing a layer of a suspension of 3 nanoparticles of a material in a liquid onto said substrate, 4 illuminating a curing point on said substrate by 5 pulsed laser light, and 6 at least partially melting the nanoparticles of 7 the deposited drops in said curing point. 8

Claims 30-34 (canceled)